

ROSS WHIPPO

rosswhippo@gmail.com • RossWhippo.com

EDUCATION

UNIVERSITY OF BRITISH COLUMBIA	Vancouver, BC
Master of Science, Zoology	2013/12
Focus: Marine Community Ecology	
Advisor: Mary I. O'Connor	
UNIVERSITY OF WASHINGTON	Seattle, WA
Bachelor of Science, Aquatic and Fishery Sciences	2011/08
Cum Laude, Faculty Honors	
SEATTLE CENTRAL COMM COLLEGE	Seattle, WA
Associate of Arts	2009/08

PUBLICATIONS

- Whippo R**, Knight NS, Prentice C, Cristiani J, Siegle M, O'Connor MI (in review - Canadian Journal of Fisheries and Aquatic Sciences). Faunal diversity patterns among eelgrass meadows suggest metacommunity structure.
- Staaterman E, Ogburn MB, Altieri AH, Brandl SJ, **Whippo R**, Seemann J, Goodison M, Duffy JE (2017). Bioacoustic measurements complement visual biodiversity surveys: preliminary evidence from four shallow marine habitats. *Marine Ecology Progress Series* 575: 207-215. doi:10.3354/meps12188
- Lowe AT, **Whippo R**, Galloway AWE, Britton-Simmons KH, Dethier MN (2015). Sedentary urchins influence benthic community composition below the macroalgal zone. *Marine Ecology* 36: 129–140. doi:10.1111/maec.12124
- Whippo R** (2013). Seagrass epifaunal communities of Barkley Sound: Epifaunal diversity varies across small spatial and temporal scales (Master's Thesis). doi:10.13140/RG.2.2.10089.70245

AWARDS AND HONORS

- Kevin Flanagan Travel Award, (American Academy of Underwater Sciences), 2013, \$800
- Faculty Merit Award, (School of Aquatic & Fishery Sciences, UW), 2011, \$500
- Dean's Medal, (College of the Environment, UW), 2011

RESEARCH EXPERIENCE

SMITHSONIAN INSTITUTION	Edgewater, MD
Lead Technician, Tennenbaum Marine Observatories Network	(2015/01-Present)

HAKAI INSTITUTE Dive Technician, Kelp and Seagrass Monitoring Team	Calvert Island, BC (2014/04-2014/09)
UNIVERSITY OF BRITISH COLUMBIA Graduate Researcher, Department of Zoology	Vancouver, BC (2011/09-2013/12)
FRIDAY HARBOR LABORATORIES Dive Technician, Duggins Lab	Friday Harbor, WA (2011/04-2011/08)
SCHOOL OF AQUATIC AND FISHERY SCIENCES Research Intern, Horner-Devine Lab	Seattle, WA (2010/05-2011/04)

EXTERNAL AND INTERNAL FUNDING

Faculty of Science Graduate Award, (UBC), 2011-2012, \$1000/yr
Graduate Research Grant, (Bamfield Marine Sciences Centre), 2013, \$1500
SciFund Challenge, (RocketHub Crowdfunding), 2012, \$1300

RESEARCH INTERESTS

Effects of climate change on marine community diversity and ecosystem function
Dispersal as a regulating mechanism in coastal marine ecosystems
Relative impact of top-down and bottom-up processes in benthic communities

OTHER PROFESSIONAL EXPERIENCE

BAMFIELD MARINE SCIENCES CENTRE Asst. Dive Safety Officer, Marine Operations	Bamfield, BC (2013/05-2013/09)
SEATTLE AQUARIUM Shift Supervisor, Interpretive Staff	Seattle, WA (2008/05-2009/08)

TECHNICAL SKILLS AND CERTIFICATIONS

Scientific Diver (American Academy of Underwater Sciences)
Small Vessel Operator Proficiency (Transport Canada)
Commercial Drone Operator License (Federal Aviation Administration)
Reef Life Survey Diver Trainer (Reef Life Survey/University of Tasmania)
Wilderness First Aid (Red Cross)
CPR & Oxygen Administration (Divers' Alert Network)
Software (R, PRIMER, ArcGIS/Q GIS, Pix4D, MS Office, LaTeX, Linux)

PRESENTATIONS

'Ocean Bitemap: Creating a global map of marine predation' (2016) - oral
American Academy of Underwater Sciences Conference, Newport, RI, USA

- 'MarineGEO: A global biodiversity network' (2016) - oral, Pelican Resort Science Cafe (**Invited**), Dangriga, Belize
- 'The MarineGEO Network: Integrated ecological observatories for changing marine ecosystems' (2015) - oral, American Academy of Underwater Sciences Conference, Key West, FL, USA
- 'The MarineGEO Network: Observatories for changing marine ecosystems' (2015) - oral, Pelican Resort Science Cafe (**Invited**), Dangriga, Belize
- 'Invertebrate epifaunal communities are structured by local and regional processes in seagrass' (2013) – oral (**Winner – best oral presentation**), American Academy of Underwater Sciences Conference, Curaçao
- 'Linking local and regional diversity of invertebrate mesograzers communities' (2013) – oral, Ecological Society of America, Minneapolis, MN, USA
- 'The application of metacommunity theory to BC seagrass meadows' (2012) – oral, Pacific Ecology and Evolution Conference, Bamfield, BC, Canada
- 'Benthic community structure mediated by the red sea urchin in the San Juan Archipelago' (2011) - oral, Western Society of Naturalists Conference, Vancouver, WA, USA
- 'Effects of the red sea urchin on benthic invertebrate communities: A link to spatial subsidies' (2011) – oral (**Winner – best oral presentation**), American Academy of Underwater Sciences Conference, Portland, Maine, USA
- 'Effects of the red sea urchin on benthic invertebrate communities: A link to spatial subsidies' (2011) – poster (**Winner – best poster**), Salish Sea Ecosystem Conference, Vancouver, British Columbia, Canada

TEACHING EXPERIENCE

UNIVERSITY OF WASHINGTON Friday Harbor, WA
 Teaching Assistant, Friday Harbor Labs (2014/08, 2010/08)

Scientific Diving, 400-level, 6-8 students supervised. Developed curricula for a two-week intensive scientific diving course with the Friday Harbor Laboratories dive safety officer. Supervised divers in training and conducted rescue, task loading and survey technique in-water exercises.

UNIVERSITY OF BRITISH COLUMBIA Vancouver, BC
 Graduate Teaching Assistant, Department of Biology (2011/09-2013/12)

Advanced Ecology, 300-level, 30-40 students supervised. Led weekly lab sessions, graded lab assignments and exams, planned and led monthly field trips, and held office hours for student assistance.

Fundamentals of Ecology, 200-level, 30-40 students supervised. Led weekly lab sessions, graded lab assignments and exams, planned and led monthly field trips, and held office hours for student assistance.

Fundamentals of Genetics, 200-level, 40-50 students supervised. Led weekly lecture sessions, graded assignments and exams, and held office hours for student assistance.

Aquatic Ecology, 400-level, 25 students supervised. Led weekly lab sessions, graded lab assignments and exams, planned and led monthly field trips, and held office hours for student assistance.

UNIVERSITY OF WASHINGTON
Undergraduate Teaching Assistant, SAFS

Seattle, WA
(2011/03-2011/05)

Biology of Shellfish, 300-level, 40-50 students supervised. Assisted with lab activities and delivered select lectures on marine invertebrate biology. Supervised students on field trips, helped develop exams and assignments.

UNDERGRADUATES AND INTERNS MENTORED

(graduation year, current status if known)

Smithsonian Celina Scott-Buechler ('19, Cornell U. undergrad), Claire Gasque ('19, Dartmouth undergrad)

UBC Carolyn Prentice ('13, MSc student at SFU), Samantha James ('12, MSc student at UBC), John Cristiani ('09, MSc student at UBC), Frances Ratcliffe ('15, Field Tech, Bangor U.), Nicole Knight ('14, PhD student at McGill U.)

LEADERSHIP AND SERVICE

Committee Member, American Academy of Underwater Sciences, Membership Committee, 2012-Present

Panelist, Bamfield Marine Sciences Centre, Marine Science Career Panel, 2012-2013

Volunteer, Beaty Biodiversity Museum, Museum Outreach Program, 2012

Science Volunteer, Friday Harbor Elementary, Expert Day, 2011-2012

Dive Presenter, San Juan Island Schools, Diver for a Day, 2011

Dive Education Presenter, Friday Harbor Labs, Open House, 2010

Education Volunteer, Friday Harbor Elementary, Science Outreach Program, 2009

Volunteer, Seattle Aquarium, Life Sciences and Environmental Interpretation, 2008-2010